Internet Society
Portugal Chapter

InterCommunity 2017

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Lisbon, Portugal Node

Live Panel Session and Detailed Program

19 September 2017, 13:00 – 14:00 (WEST/UTC+1)

ISOC Portugal Chapter 13:00 – 13:50

Live Panel Session: Will Big Data and Artificial Intelligence Algorithms undermine the Open Internet?

With the support of: LNEC

Lisbon Node Live Panel

In the recent years, the Internet has enabled computing at massive scale, worldwide networked systems, interconnecting people and machines, making recommendations and taking decisions, by relying on big data analysis and artificial intelligence algorithms.

This has had many benefits in many areas such as combating spam, personalisation of users' online experience, fraud detection, medical applications, automated voice interaction, and cost reductions in service provision due to generalized productivity increase.

However, evolution of artificial intelligence can expose the Internet to emerging threats like the spreading of 'fake news' and misinformation; large-scale surveillance; privacy violations and rights erosion; intermediators reconstruction; potential job losses; and concentration of power in a small number of Internet-based corporations and organizations.

The rapid evolution of artificial intelligence may negatively impact people's confidence in the Internet, it's openness, and accelerate the digital divide between a limited number of winners and those left behind.

This session will explore questions such as:

- How to adopt ethical standards and considerations in systems using artificial intelligence and big data? How to ensure their accountability?
- How to ensure a responsible deployment of these systems in a way that humans and laws are in control and they are safe and preserve privacy?
- How to preserve an open and multi stakeholder Internet governance to help shape socio-economic opportunities for all in this new context?

Moderators: *José Legatheaux Martins, ISOC PT and Maarit Palovirta, ISOC European Regional Bureau*

Panelists:

- Arlindo Oliveira, Dean of Instituto Superior Técnico, University of Lisbon
- Pedro Veiga, Coordinator of Centro Nacional de Cibersegurança
- Rogério Reis, Faculty of Sciences, University of Porto

Venue

- Centro de Congressos do LNEC Avenida do Brasil, 101 Lisboa, Portugal

Event Site: https://www.internetsociety.org/intercommunity/2017

Panelists: Biographies

Arlindo Oliveira

Dean of Instituto Superior Técnico, University of Lisbon

http://arlindo.oliveira.cc/

Arlindo Oliveira is the Dean of Instituto Superior Técnico (IST) – Universidade de Lisboa, and a Full Professor of the Department of Computer Science and Engineering, being currently the Dean of IST and president of its executive board. He obtained a PhD from UC Berkeley in 1994, after a BSc and a MSc from IST, in 1986 and 1989, respectively. Arlindo Oliveira is a member of the Portuguese Academy of Engineering, a senior member of IEEE and a notable researcher in Computer Science, with the major areas of interest in Algorithms and Complexity, Machine Learning, Bioinformatics and Digital Circuit Design. Beyond his relevant research contributions, Arlindo Oliveira has devoted particular attention to the study of relations between computers, evolution, complexity, life, brains, and minds. His recent book "The Digital Mind: How Science is Redefining Humanity" (http://web.tecnico.ulisboa.pt/arlindo.oliveira/the_digital_mind.html), published by MIT Press, is a notable reflection on those concerns, and includes relevant educated guesses on the future of Computing, as well as, wild speculations on the future of intelligence in the new era of Computing and Communication. He worked at CERN, Cadence Laboratories and INESC-ID - *Instituto de Engenharia de Sistemas e Computadores, Investigação e Desenvolvimento em Lisboa* - a Portuguese R&D institute dedicated to advanced research and development in the fields of Information Technologies, Electronics, Communications, and Energy.

José Legatheaux Martins, Panel moderator

http://jose.legatheaux.info/

José Legatheaux Martins is the President of the Board of the Portuguese Chapter of the Internet Society, a member of the ACM and a senior member of the IEEE. He is a full professor of Distributed Systems and Computer Networks at the Department of Informatics, Faculty of Sciences and Technology of NOVA University in Lisbon.

From 1990 to 1994 he lead the national project that established the portuguese branch of the Internet and lead the PUUG – Portuguese Unix Users Group, and the portuguese branch of EUnet, both not for profit organizations promoting Open Systems and the TCP/IP network suite and the Internet adoption. He was one of the founders of a portuguese Internet Service Provider that has been acquired in 2000 by the US based Qwest Communications Company. From 2000 to 2004 he was a technical consultant of the national branch of an international ISP.

José graduated from FCT/UNL in Engenharia Informática in 1979. From 1983 to 1987 he was a researcher at INRIA (Institut National de Recherche en Informatique et Automatique) in France where he worked on the Chorus Distributed Operating System and in the SOR teams. At the end of 1986 he got his PhD degree in Distributed Systems from Université de Rennes in France. From 1988 to 1992 he was with the University of Lisbon and from then with the NOVA University of Lisbon. His former research was related with distributed data replication, mobile systems and CSCW systems; currently, his main current research interests are related with routing in computer networks and the future evolution of the Internet.
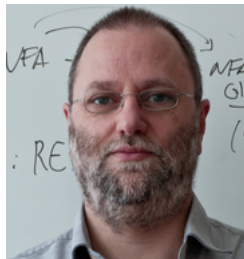
Pedro Veiga

Coordinator of Centro Nacional de
Cibersegurança

https://www.cncs.gov.pt

Pedro Veiga is a Full Professor of Computer Networks at University of Lisbon, former President of the Portuguese Chapter of ISOC and he is currently the fulltime Coordinator of Centro Nacional de Cibersegurança (https://www.cncs.gov.pt) - The National Cibersecurity Coordination Center operates under the Portuguese Government as the Operational Coordinator and the Portuguese National Authority specialized in Cybersecurity, promoting the cyberspace usage in a free, trustable and secure fashion by continuously improving national cibersecurity and international cooperation at the Portuguese Government Level.

From 1997 to 2013 he was President of the Portuguese Foundation for National Scientific Computation (FCCN) the organization that operates the Portuguese Research and Education Network. Pedro played a relevant role in the management and development of the .PT TLD and was involved in ICANN since its creation in 1998: he was the PT delegate to the GAC – Government Advisory Board from 1998 to the beginning of 2009 and a delegate to ccNSO. He served as the Portuguese Member of the Management Board of ENISA from 2012 to 2014. Pedro Veiga has been active in Information Society policy issues since 1996, namely in the preparation of the "Green Paper on the Information Society" in Portugal. From 2000 to 2003 he was the Manager of the Information Society Program in Portugal.

He holds a PhD in Electrical Engineering from Instituto Superior Técnico – Universidade Técnica de Lisboa. His academic area of expertise is "networks and information systems security" with different research contributions in the field of Computer Networks, Cybersecurity, Internet Governance and Internet of Things

Rogério Reis

University of Oporto,
http://www.dcc.fc.up.pt/~rvr/

Rogério Reis, is a Researcher and Professor at the Department of Computer Science – Faculty of Sciences at University of Oporto, Portugal and member of ISOC. He is engaged in promoting the principles on the application of Human Rights to Communications Surveillance and on the defense of Privacy, as a fundamental Human Right in the Digital Age, and as a central factor to the maintenance of democracy and human dignity.

He holds a PhD degree in Computer Science from the University of Oporto in 2007. Rogério has his research interests in the fields of Finite Automata Theory, Descriptional Complexity, Cryptography, Type Theory, Analytic Combinatorics, Computational Algebra and Static Analysis of Programming Languages. In his work as Academic and Computer Scientist he has been involved in teaching Cryptography, Computational Complexity, Programming Languages, as well as, Automata and Applications. He has relevant publications in different research domains, such as: Computational Complexity, Descriptional Complexity of Formal Systems, Automata and Applications and Computer Programming.

Full Day Programme

10:00-10:45	Welcoming local participants to the Intercommunity at Lisbon /RBD/Staff Coffee available at LNEC – Centro de Congressos do Laboratório Nacional de Engenharia Civil
10:45-10:50	Setup and Preparation for the Follow up of the Turkish Chapter
10:50-11:50	Join with the Audience to the Turkish Node Session: The Future of Internet in Turkey
11:50-11:55	Break
11:55-12:50	Join with the Audience to the Switzerland Node Session: Will the Internet of Things Undermine the Internet of Trust?
12:50-12:55	Join Geneva Node, Welcome, Hello and Introduction to the Switzerland Chapter
12:55-13:00	Framing the discussion and introduction to the panelists – José Legatheaux and Maarit Palovirta
13:00-13:50	Lisbon Node Live Panel: Will Big Data and Artificial Intelligence Algorithms Undermine the open Internet?
13:50-13:55	We join the Dakar Node welcome
13:55-14:00	*Lisbon Node Video* Farewell from Lisbon
14:00-15:00	Celebration and Lunch Time
15:00-15:30	Closing Remarks: - Future Initiatives of ISOC.PT - Wrapping Up